



Airfield Pavements Design, Engineering Division

The Airfield Pavements Design group is part of Omaha District's Engineering Division. It provides complete design and consulting services for military airfield pavement projects.

Mission

The mission of the Airfield Pavements Design group is to meet the civil engineering requirements of the Omaha District and civil customers it serves, using sound engineering judgment and incorporating state-of-the-art technologies in a timely and cost-effective manner.

In-House Services

- o Design, review, analyze, prepare request for proposal documents and Department of Army 1391 cost verification for military airfield, special use, and road projects
- o Plan, implement, analyze, and determine pavement design parameters (geotechnical investigation)
- o Specify and evaluate asphalt and concrete mix designs
- o Inspection of airfield pavement distress conditions
- o Specify and evaluate reclaimed asphalt pavement and Portland cement concrete for granular bases
- o Perform pavement design and construction consultation
- o Conduct petrographic analysis for aggregate bases and Portland cement concrete pavements and asphalt cement concrete pavements
- o Perform electrical, mechanical (hydrant fuel systems), structural, environmental, cost engineering support, and surveying
- o Plan airfield maintenance

Major Projects

- o Runway Closure FY04: Offutt Air Force Base (AFB), Neb. - design
- o Hydrant Fuel: McConnell AFB, Kan; Grand Forks AFB, N.D.; Minot AFB, N.D.; Travis AFB, Calif.; Fairchild AFB, Wash.; Offutt AFB, Neb. - design and construction oversight
- o Airfield Improvements Projects: Fort Bliss and Fort Hood, Texas - pavement design and construction oversight
- o Repair Inside Runway 13R-31L and Center Runway 13C-31C: Laughlin AFB, Texas
- o North Ramp and Hot Cargo Pads: England AP, La. - geotechnical investigation and pavement thickness design
- o "H" Road Pavement: Iowa Army Ammunition Plant, Iowa - reclaimed asphalt pavement recycling, design and construction oversight
- o Hazardous Waste Landfill: Rocky Mountain Arsenal, Colo. - Rigid Pavement Haul Road Design (355,000 pound vehicle)
- o Repair Runway FY94 and FY99: Grand Forks AFB, N.D.
- o Pueblo Chemical Depot Road, Colo. - Subgrade Problem Analysis and Construction Oversight
- o KC-135R (aerial refueling tanker aircraft) Apron Extension: Grand Forks AFB, N.D.
- o Worldwide Projects: Romania: KC-135 Apron Design; Bahrain: Base X Construction Oversight; Masirah Island, Oman: Runway Overlay/Drainage Design; Misawa AB, Japan: Hydrant Fuel and Expand Parking Ramp Design; Thule AB, Greenland; Repair Taxiways, and Airfield Drainage, Phases I, II and III; Marine Corps Air Station, Iwakuni, Japan, Criteria Package for Runway Relocation



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